

10/796554

Patent No. 6,986,295  
Request for Cert. of Correction dated April 18, 2006  
Attorney Docket No. 0388-043673

*C of C*



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. : 6,986,295 Confirmation No. 1081  
Inventor : Kajino et al.  
Issued : January 17, 2006  
Title : Transmission For Work Vehicle  
Having PTO Function  
Examiner : Justin K. Holmes  
Customer No. : 28289

**Certificate**  
**APR 27 2006**  
**of Correction**

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT  
FOR PTO MISTAKE (37 C.F.R. 1.322(a))**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

ATTENTION: Decision and Certificate of Correction Branch  
Patent Issue Division

Sir:

In accordance with 35 U.S.C. §254, we attach hereto Form PTO/SB/44 and a copy of proof of PTO's error and request that a Certificate of Correction be issued in the above-identified patent. The following error appears in the patent as printed:

Column 6, lines 15-16, "gears 21, 22" should read -- gears 21, **23** --  
See specification, page 10, line 16 and the Examiner's Amendment accompanying the Notice of Allowability, dated 07/06/2005, page 2,

Respectfully submitted,

THE WEBB LAW FIRM

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**MAY 1 2006**

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 6,986,295  
APPLICATION NO. : 10/796,554  
ISSUE DATE : January 17, 2006  
INVENTORS : Kajino et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6, lines 15-16, "gears 21, 22" should read -- gears 21, **23** --

MAILING ADDRESS OF SENDER: The Webb Law Firm  
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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-2450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select Option 2.*



## TRANSMISSION FOR WORK VEHICLE HAVING PTO FUNCTION

### Background of the Invention

#### 5 Field of the Invention

The present invention relates to a transmission for a work vehicle having PTO function for transmitting a force to an implement mounted on a vehicle body.

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#### Description of the Related Art

With the transmission of the above-noted type, conventionally, as known from e.g. Japanese Patent Application "Kokai" No.: Sho. 58-102848 (Figs. 1 and 3), a drive force from an engine is divided between a vehicle traveling force and an implement driving force through first and second multiple-plate friction clutches and an intermediate transmission shaft included in the first multiple-plate friction clutch, respectively. The implement driving force from the intermediate transmission shaft is inputted to a PTO change-speed mechanism housed in a transmission case, so that the force is subjected to a change-speed operation by this PTO change-speed mechanism and then this speed-reduced force is transmitted to a rear PTO shaft. On the other hand, the vehicle traveling force from the first and second multiple-plate friction clutches is subjected to an auxiliary change-speed operation by an auxiliary change-speed mechanism including small and large gears mounted on a change-speed shaft and a shift gear mounted on a bevel-pinion shaft and then this force is transmitted to a rear-wheel differential mechanism.

In the case of this conventional work vehicle transmission having PTO function, in the number of speeds available from the auxiliary

right side from the position shown in fig. 3). In this embodiment, the second gear transmission mechanism 60 for transmitting the force from the second transmission shaft 18 to the front wheel transmission shaft (fourth transmission shaft) <sup>25</sup>60 consists essentially of the transmission gear (input gear) 21, the further transmission gear (relay gear) 23 and the shift gear (output gear) 26.

As shown in Fig. 4, to the left side of the output case 24, a control shaft 28 is rotatably supported. And, an arm 28a secured to this control shaft 28 is meshed with the shift gear 26. A control rod 29 connected to the control shaft 28 projects upward from the left side of a floor 30 (see Fig. 1). Then, when the control rod 29 is pulled up, the control shaft 28 operates the shift gear 26 into the transmitting position. When the control rod 29 is pushed down, the control shaft 28 operates the shift gear 26 into the released, i.e. non-transmitting, position. With the above-described construction, the force of the second transmission shaft 18 is transmitted to the front wheels 1 via the transmission gears 21, <sup>23</sup>22, the shift gear 26, the front wheel transmission shaft (fourth transmission shaft) 25 and a front wheel differential mechanism (not shown).

Next, there will be described a rear PTO shaft 31 having a rear PTO coupling (to be referred to also as "rear PTO") at a free end thereof.

As shown in Figs. 2, 3 and 4, this rear PTO shaft 31 is accommodated in the fourth case portion 4d of the transmission case 4. And, the third transmission shaft 22 is coupled via a coupling 32 to this rear PTO shaft 31. The rear PTO shaft 31 projects rearward from the fourth case portion 4d of the transmission case 4.

As shown in Figs. 2 and 3, the third case portion 4c of the transmission case 4 accommodates therein a transmission shaft 33. A pump shaft 8d of a hydraulic pump 8b of the HST 8 is coupled via a coupling 34 to this transmission shaft 33. That is, the pump shaft 8d receiving the engine power and the transmission shaft 33 together



Application No.

10/796,554

Examiner

Justin K. Holmes

Applicant(s)

KAJINO ET AL.

Art Unit

3681

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 09 March 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 7/08/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 7/25/05
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

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### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Craig M. Waller on July 25, 2005.

The application has been amended as follows:

In the Specification on:

Page 8, line 15 "low speed gear 13" has been replaced with --low speed gear 12--;

Page 9, line 5 "shaft 3e" has been replaced with --shaft 8e--;

Page 9, line 17 "case 8" has been replaced with --case 24--;

Page 10, line 4 "(fourth transmission shaft) 60" has been replaced with --(fourth transmission shaft) 25--;

Page 10, line 16 "gears 21, 22" has been replaced with --gears 21,23--;

Page 11, line 16 "first transmission gear" has been replaced with --first transmission shaft--;

Page 12, line 5 "portion 36b" has been replaced with --portion 36a"--;

Page 13, line 13 "shaft 41" has been replaced with --shaft 25--;

MAY 1 2006